

IN THE UNITED STATES PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT TRANSMITTAL

In re Application of: Kenneth B. Stokes et al

For: System and method for enhancing cardiac signal sensing by cardiac pacemakers through genetic treatment

Serial No.: 10/685,237

Filed: October 14, 2003



CERTIFICATE OF MAILING

DATE OF DEPOSIT 3-4-04

I hereby certify that this paper is being deposited with the U.S. Postal Service, as First Class Mail under 37 CFR 1.10 on the date indicated above and addressed to the Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Juanita I. Trauffer
Juanita I. Trauffer

Mailstop: Box IDS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We are transmitting herewith the attached:

- ☒ Information Disclosure Statement
- ☒ PTO Form 1449
- ☐ Copy of Cited Reference
- ☒ Return postcard

Applicant believes no fee is due.

- ☐ \$ 00.00 pursuant to 37 CFR §1.97(b)
- ☐ \$ 00.00 pursuant to 37 CFR §1.97(c) with 37 CFR §1.97(e) certification
- ☐ \$240.00 pursuant to 37 CFR §1.97(c) without 37 CFR §1.97(e) certification
- ☐ \$130.00 pursuant to 37 CFR §1.97(d) with 37 CFR §1.97(e) certification and petition
- ☐ \$ 10.00 pursuant to 37 CFR §1.21(c) disclosure document

☐ Applicant hereby petitions for a _ month(s) extension of time. If an additional extension of time is required, please consider this a petition therefor.

☐ Charge Deposit Account No. 13-2546 the sum of \$__.

☒ Please charge any additional fees or credits to Deposit Account No. 13-2546 which may have been overlooked on this Information Disclosure Statement Transmittal with regard to this filing. A duplicate of this transmittal is enclosed.

☒ Applicant believes that no extension of term is required. However, if an extension of time is required, please consider this a petition therefor to provide for the possibility that applicant has inadvertently overlooked the need for an extension of time.

Date

March 4, 2004

Kenneth J. Collier
Kenneth J. Collier
Reg. No. 34,982
Medtronic, Inc.
710 Medtronic Parkway N.E.
Minneapolis, MN 55432
Telephone: (763) 505-2521



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Kenneth B. Stokes et al.

Serial No.: 10/685,237

Filed: October 14, 2003

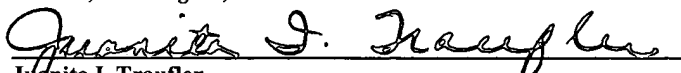
Docket: P-3586.01 C3

Title: System and method for enhancing cardiac signal sensing by cardiac pacemakers through genetic treatment

CERTIFICATE OF MAILING

DATE OF DEPOSIT 3-4-04

I hereby certify that this paper is being deposited with the U.S. Postal Service, as First Class Mail, addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231


Juanita I. Trauffer

Mail Stop IDS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:


In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Consideration of each of the documents listed on the attached Form 1449 is respectfully requested. Pursuant to the provisions of M.P.E.P. § 609, Applicant further requests that a copy of the Form 1449, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

The Examiner's attention is brought to Applicants' filed U.S. Patent Application USSN 10/685,237 filed October 14, 2003, and the art cited therein.


Respectfully submitted,

Applicants

By:

 3/4/04

Kenneth J. Collier
Registration No.: 34,982
Medtronic, Inc.
710 Medtronic Parkway NE
Minneapolis, MN 55432
Telephone (763) 505-2521

INFORMATION DISCLOSURE STATEMENT 	Atty Docket No: P3586 C3	Serial No.: 10/685.237
	Applicant(s): Stokes, Kenneth B., et al.	
	Filing Date: 14-Oct-03	Group: 3762

US PATENT DOCUMENTS

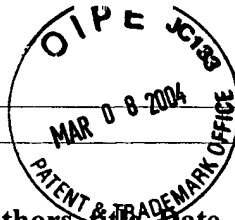
Examiner Initial	+/*	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	*	US4146029	27-Mar-79	Ellinwood	128	260	31-May-77
	*	US4360031	23-Nov-82	White, et al.	128	786	01-Sep-80
	*	US4539991	11-Feb-83	Boute, et al.	128	419	10-Oct-85
	*	US4554921	26-Nov-85	Boute, et al.	128	429	27-Dec-83
	*	US4711251	08-Dec-87	Stokes, et al.	128	784	31-Mar-83
	*	US4774951	04-Oct-88	Osyypka	128	419	17-Jun-86
	*	US4920965	01-May-90	Funke, et al.	128	419	25-Nov-87
	*	US5030204	09-Jul-91	Badger	604	95	06-Feb-90
	*	US5041107	06-Oct-89	Heil, et al.	604	891.1	20-Aug-91
	*	US5060660	28-Feb-90	Gamble, et al	128	772	29-Oct-91
	*	US5087243	11-Feb-92	Boaz	604	20	18-Jun-90
	*	US5104393	14-Apr-92	Isner, et al.	606	15	02-Nov-01
	*	US5172694	22-Dec-92	Flammang, et al.	128	642	30-May-91
	*	US5174999	29-Dec-92	Magruder, et al.	424	423	20-Apr-90
	*	US5176641	05-Jan-93	Ildriss, et al.	604	133	08-Jun-91
	*	US5220917	22-Jun-93	Cammilli, et al.	128	419	16-Nov-90
	*	US5328470	02-Jul-94	Nabel, et al.	604	101	26-Jul-91
	*	US5380836	10-Jan-95	Rogart	536	23.5	30-Sep-91
	*	US5405376	11-Apr-95	Mulier, et al.	607	127	27-Aug-93
	*	US5443450	22-Aug-95	Kratoska, et al.	604	141	29-Apr-94
	*	US5447533	05-Sep-95	Vachon, David J.	607	120	06-Oct-93
	*	US5458631	17-Oct-95	Xavier, et al.	607	117	22-Mar-94
	*	US5496360	05-Mar-96	Hoffmann	607	120	12-Apr-94

FOREIGN PATENT DOCUMENTS

Examiner Initial	+/*	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	*	90/09391	23-Aug-01	Rogart	CO7H	15/12	13-Feb-89
	*	WO93/04724	18-Mar-93	Rissmann & Brennen	A61M	25/01	28-Aug-91
	*	WO94/11506	26-May-94	Leiden, et al.	C12N	15/12	18-Nov-92

EXAMINER	Date Considered
Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * - Reference Previously cited and provided to the Examiner. + - New Reference not previously cited (available copies included).	

		WO95/05781	02-Mar-95	Mulier, et al.	A61B	17/39	27-Aug-93
--	--	------------	-----------	----------------	------	-------	-----------



OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	+/*	Document Cite
	*	Acsadi, et al., The New Biol. 1991, 3, 71-81
	*	Aoyagi, et al., J. Biol. Chem. 1993, 268, 27176-27179
	*	Argentin, et al., Mol. And Cell. Biol. 1994, 14, 777-790
	*	Barr, et al., Gene Ther., 1994, 1, 51-58
	*	Chomczynsky, et al., Anal. Biochem., 1987, 162, 156-159
	*	Cribbs, et al., FEBS 1990, 275, 195-200
	*	Duff, et al., Mol. Pharmacol., 1992, 42, 570-574
	*	Fozzard, et al., Circ. Res., 1985, 56, 475-485
	*	French, et al., Circulation, 1994, 90, 2414-2424
	*	Friedmann and Felgner, Scientific American 1997, June, 96-106
	*	Gal, et al., Lab. Invest., 1993, 68, 18-25
	*	Gellens, et al., Proc. Natl. Acad. Sci. USA (1992) 89, 554-558
	*	Gluzman, et al., Eukaryotic Viral Vectors, Gluzman, ed., Cold Spring Harbor Press, 1982, 187-192
	*	Johns, et al., J. Clin. Invest. 1995, 96, 1152-1158
	*	Kallen, et al., Neuron, 1990, 4, 233-242
	*	Kanter, et al., Circulation Research 1992, 70, 438-444
	*	Kass-Eisler, et al., Proc. Natl. Acad. Sci USA 1993, 90, 11498-11502
	*	Kawakami, et al., J. Biochem., 1986, 100, 389-397
	*	Kawakami, et al., Nuc. Acids Res., 1986, 14, pp 2833-2844
	*	Kitsis, R., Proc. Natl. Acad. Sci USA 88, 4138-4142
	*	Kriegler, Gene Transfer and Expression, a Laboratory Manual, W.H. Freeman Co., New York (1990) (Table of contents only).
	*	Lesage, et al., FEBS 1992, 301, 168-172
	*	Makita, et al., J. Biol. Chem. 1994, 269, 7571-7578
	*	Marshall, et al., Science 1995, 269, 1050-1055

EXAMINER	Date Considered
<p>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> <p>* - Reference Previously cited and provided to the Examiner.</p> <p>+ - New Reference not previously cited (available copies included).</p>	

Based on Form PTO-FB-A820
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce

	*	Murry, E.J. e.d., Methods in Molecular Biology, vo. 7, Humana Press, Inc., Clifton, New Jersey (1991) (Table of contents only).
	*	Nabel, et al., Science (1989) 244, 1342-1344
	*	Nabel, et al., Human Gene Therapy 1992, 649-656
	*	Nakasaki, J. Biochem 1993, 114, 528-534
	*	Navankasattusas, et al, Mol. And Cell. Biol. 1994, 14, 7331-7339
	*	Parmacek, et al., Mol. Cell Biol., 1992, 12, 1967-1976
	*	Parmacek, et al., J. Biol. Chem., 1990, 265, 15970-15976
	*	PCT/ISA210, PCT International Search Report
	*	Plank, et al., J. Biol. Chem. 1994, 269, 12918-12924
	*	Rogart, Proc. Natl. Acad. Sci. USA 1989, 86, 8170-8174
	*	Salvatori, et al., Human Gene Therapy 1993, 4, 713-723
	*	Sambrook, et al., Molecular Cloning: A Lab. Manual, 2nd Ed. Cold Spring Harbor Press (1989), Table of Contents only
	*	Sambrook, et al., Molecular Cloning: A Lab. Manual, 2nd Ed. Cold Spring Harbor Press (1989), pp 7.26-7.29
	*	Satin, et al., J. Membrane Biol. 1992, 130, 11-22
	*	Satin, et al., Scienc 1992, 256, 1202-1205
	*	Smith, et al., Biochimica et Biophysica Acta 1993, 1174, 63-71
	*	Tanka, et al., Cell Transplantation 1994, 3, S55-S56
	*	Taouis, et al, J. Clin. Invest. 1991, 88, 375-378
	*	Wang, et al., Am. J. Hum. Genet. 1993, 52, 1074-1084
	*	White, et al., Mol. Pharmacol., 1991, 39, 604-608
	*	Xu, et al., Nucleic Acids Research 1992, 20, 6425-6426
	*	Zhou, et al., J. Biol. Chem. 1994, 269, 18563-18571



EXAMINER	Date Considered
<p>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> <p>* - Reference Previously cited and provided to the Examiner.</p> <p>+ - New Reference not previously cited (available copies included).</p>	

Based on Form PTO-FB-A820
(Also form PTO-1449)

Patent and Trademark Office, U.S. Department of Commerce